

Figure 1: Partitioned Host System

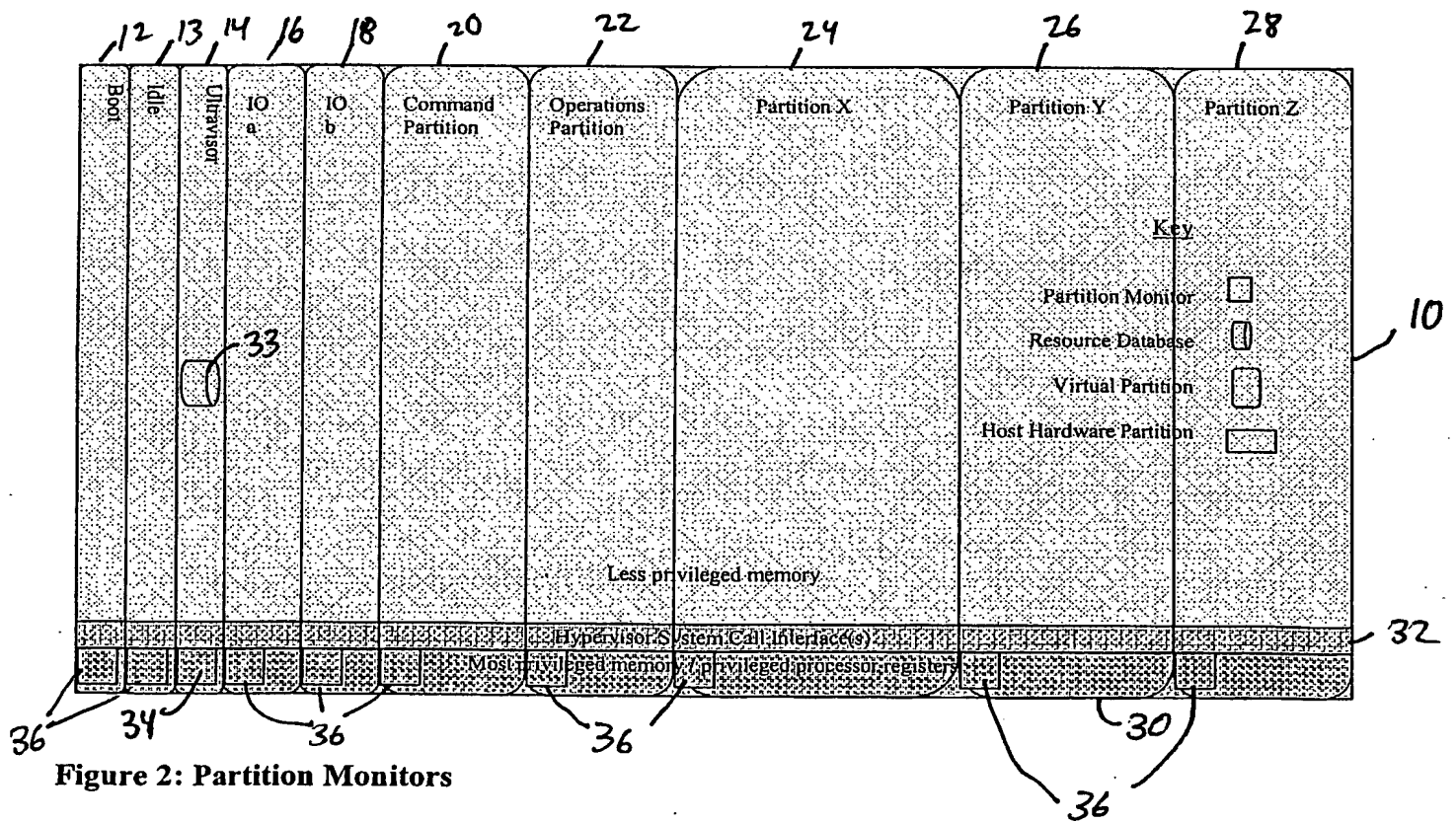


Figure 2: Partition Monitors

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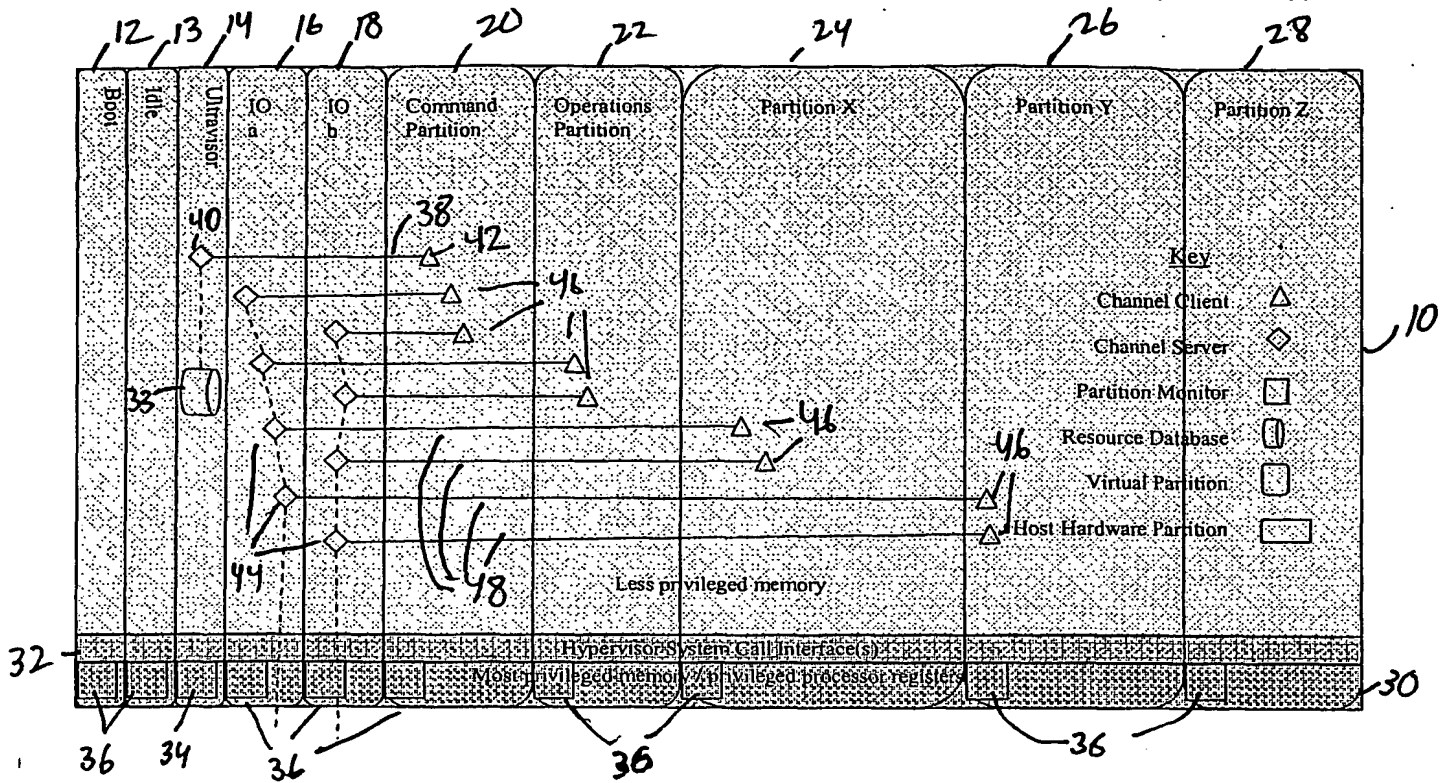


Figure 3: Partition Channels

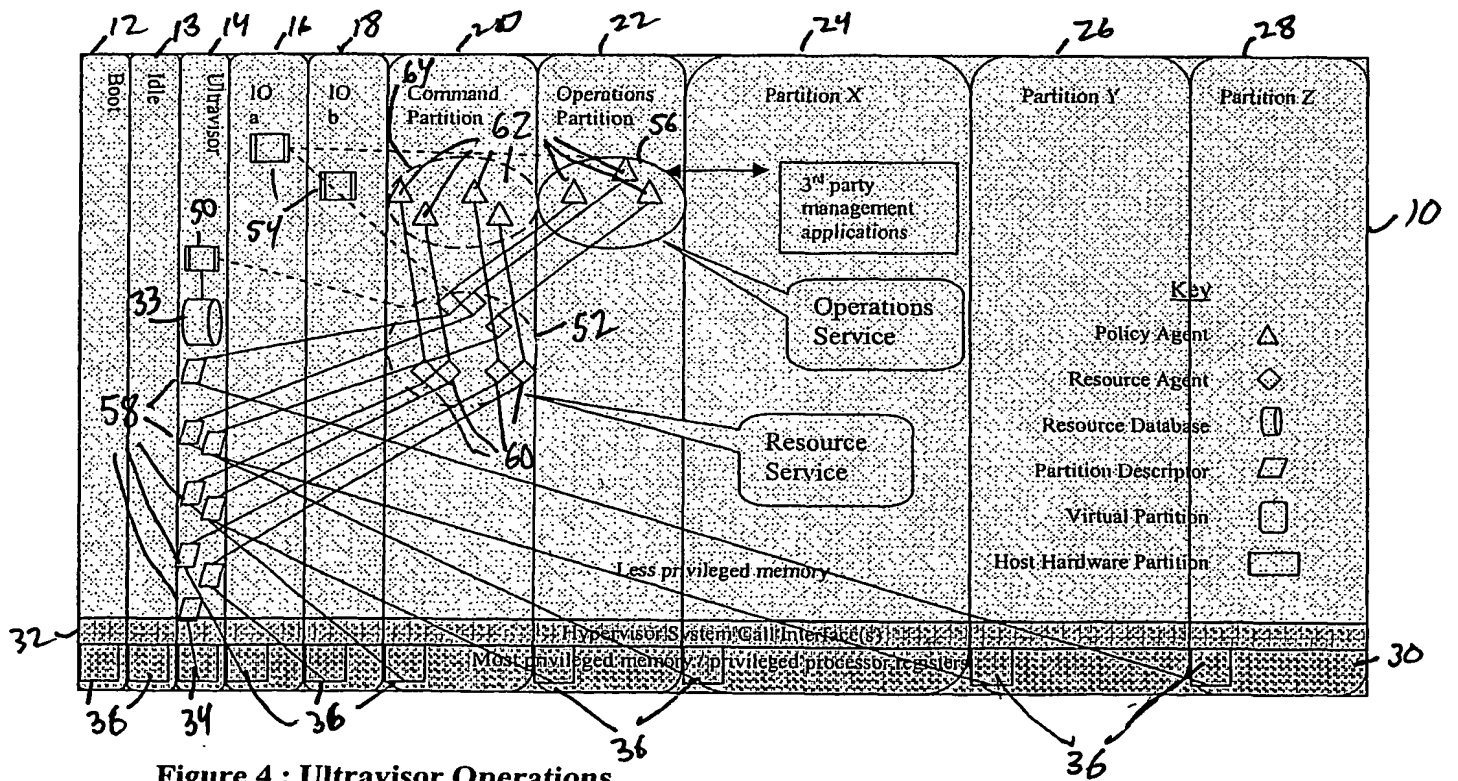


Figure 4 : Ultravisor Operations

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Overlapped processor throttling – default 4 bit duty width ($1/16 = 6.25\%$)

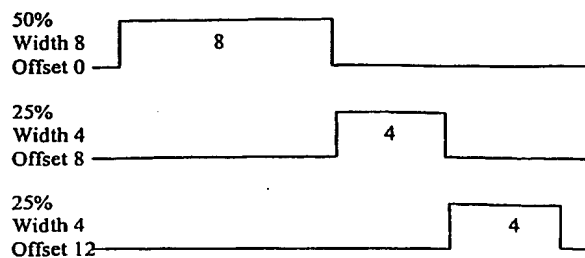


Figure 5 : Processor Sharing

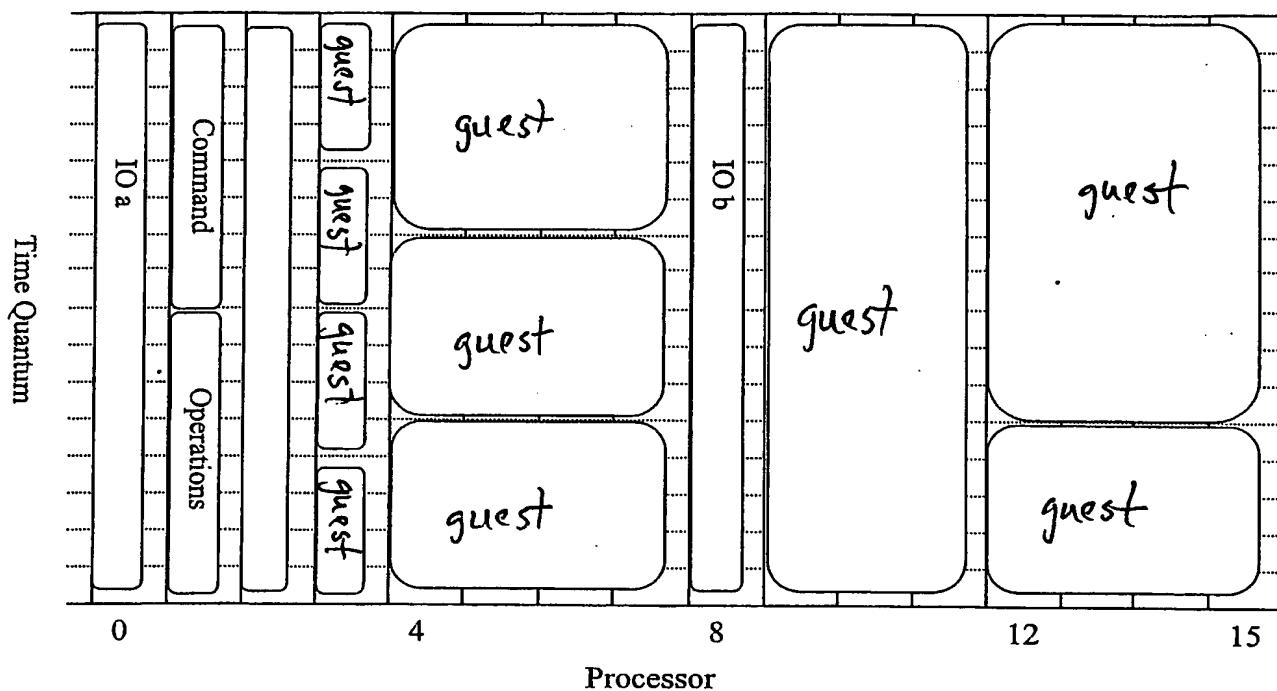


Figure 6 : Processor Schedule

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$(2^{10})^n$	SI prefix	SI name	Page Table	Pageantry	IA32/EM32T
1	K	kilo	PKM	PKE	PT/PTE
2	M	mega	PMM	PME	PD/PDE
3	G	giga	PGM	PGE	PDP
4	T	tera	PTM	PTE	PML4
5	P	peta	PPM	PPE	
6	E	Exa	PEM	PEE	
7	Z	zetta	PZM	PZE	
8	Y	yotta	PYM	PYE	

Figure 7 : SI Prefixes for Page Table Hierarchy

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Function GetMemoryOwner [T : 0..1023, G:0..1023, M:0..1023, K:0..1023] of Int32

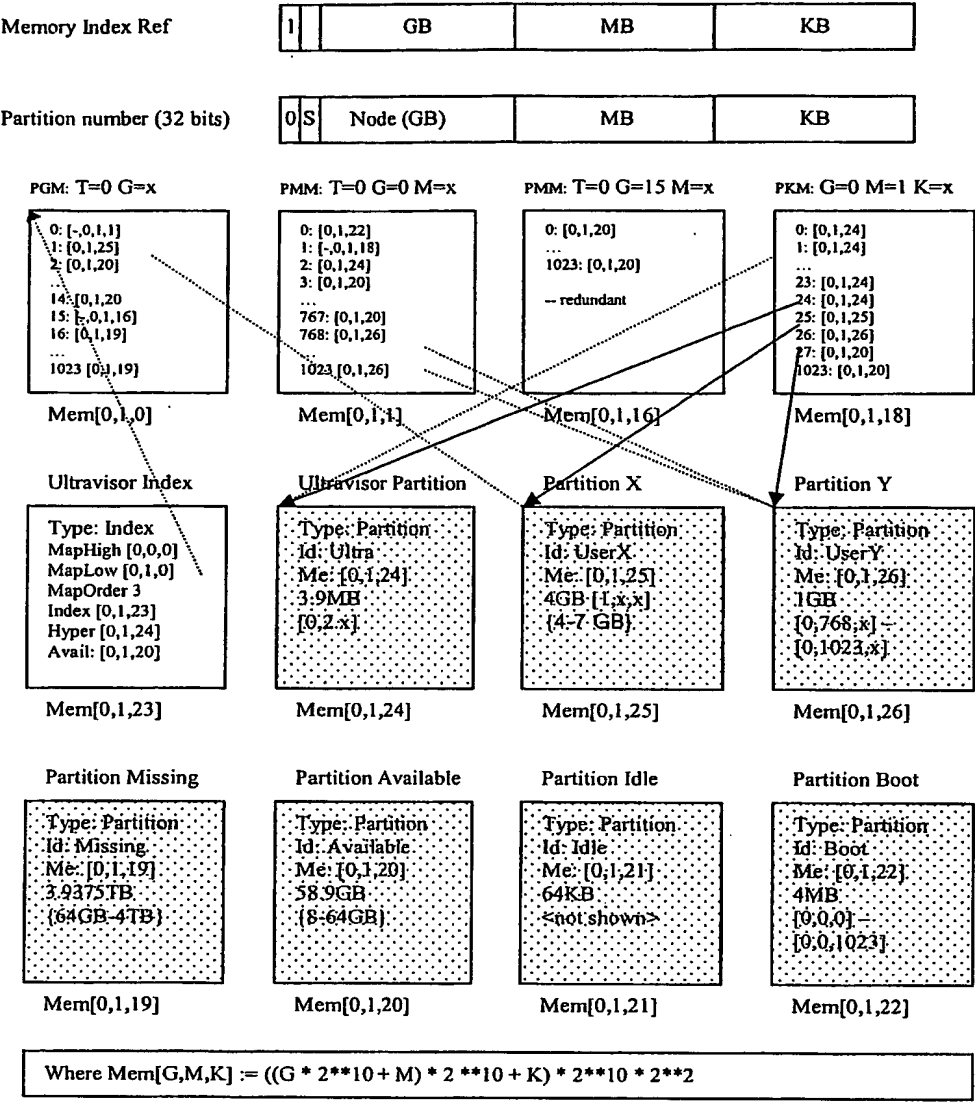


Figure 8 : Partition Memory Map

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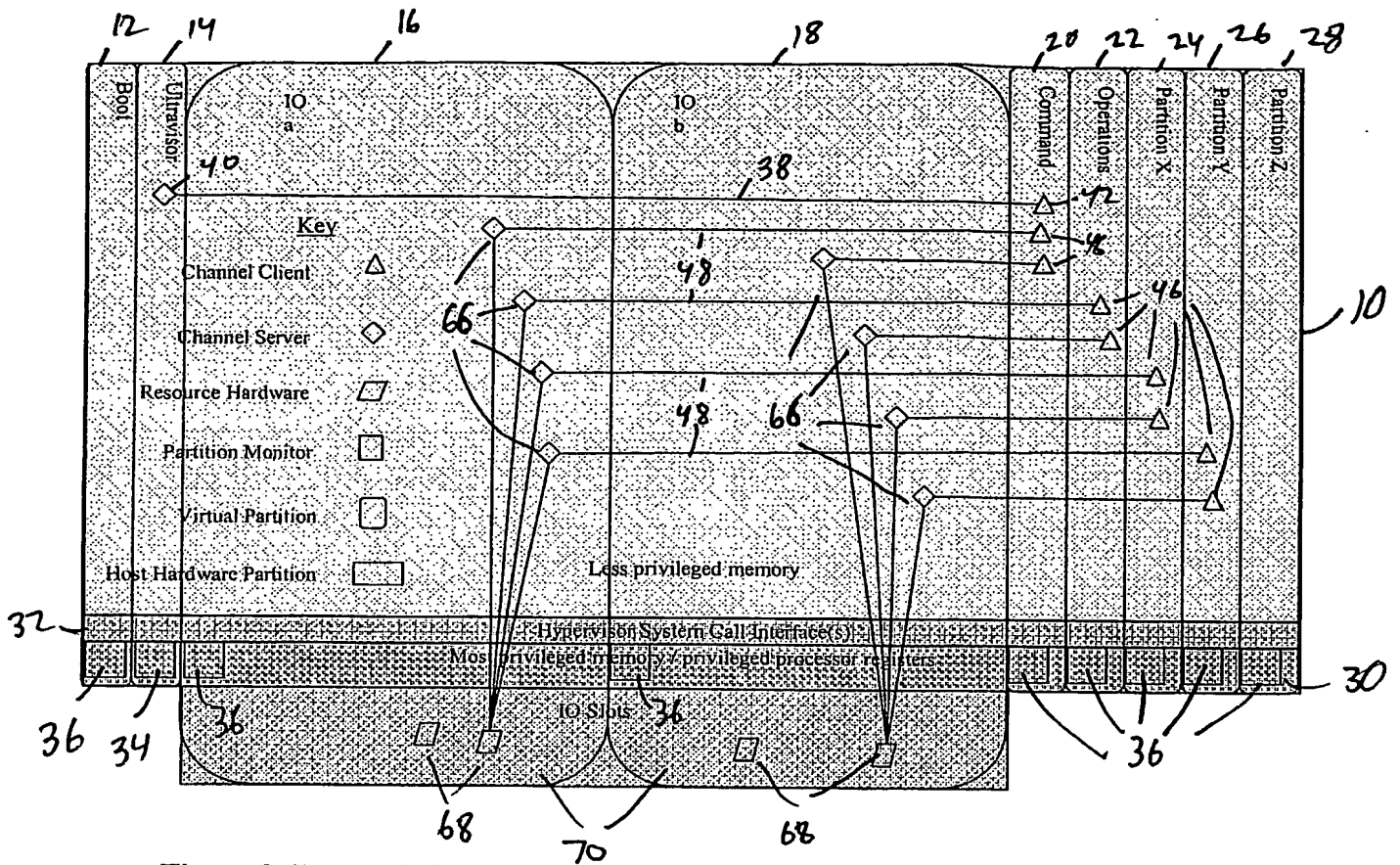


Figure 9: Internal I/O

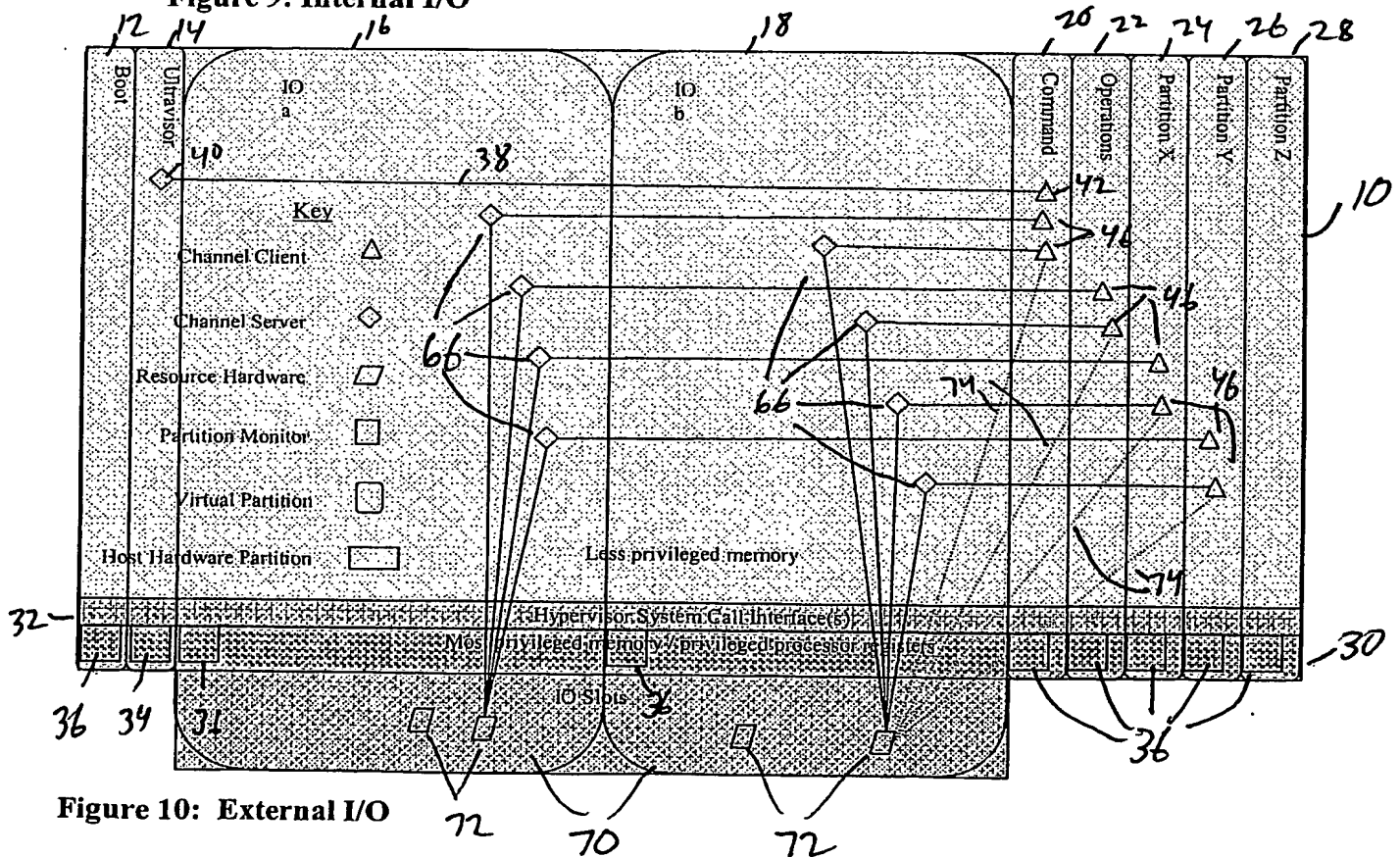


Figure 10: External I/O

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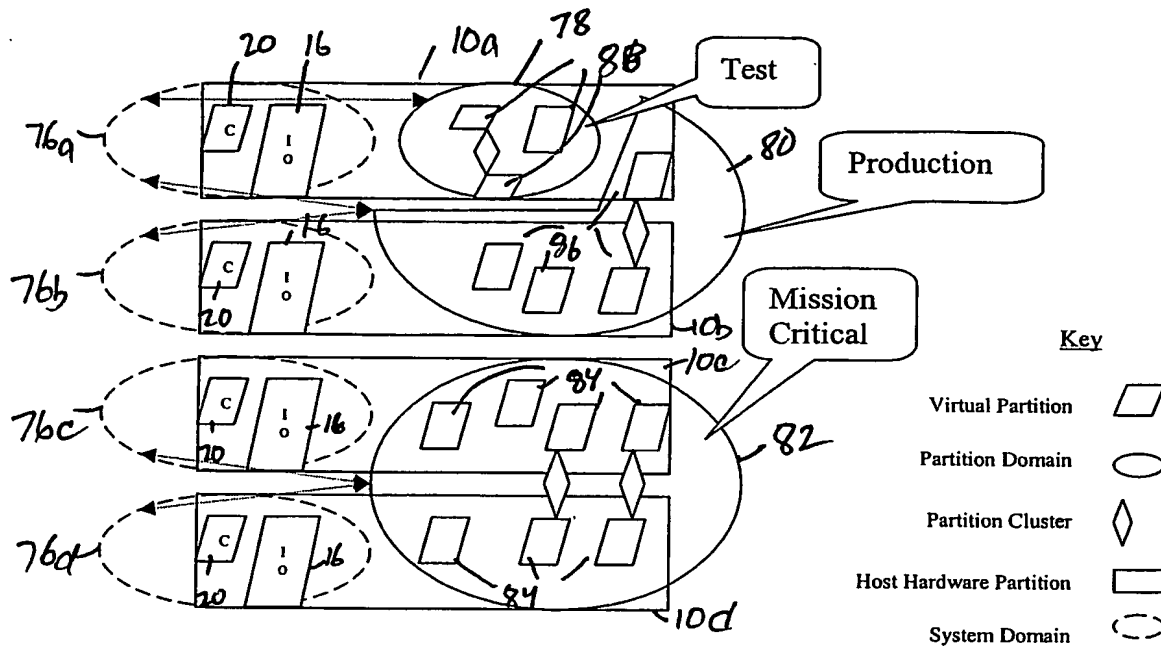


Figure 11 : Ultravisor Domains

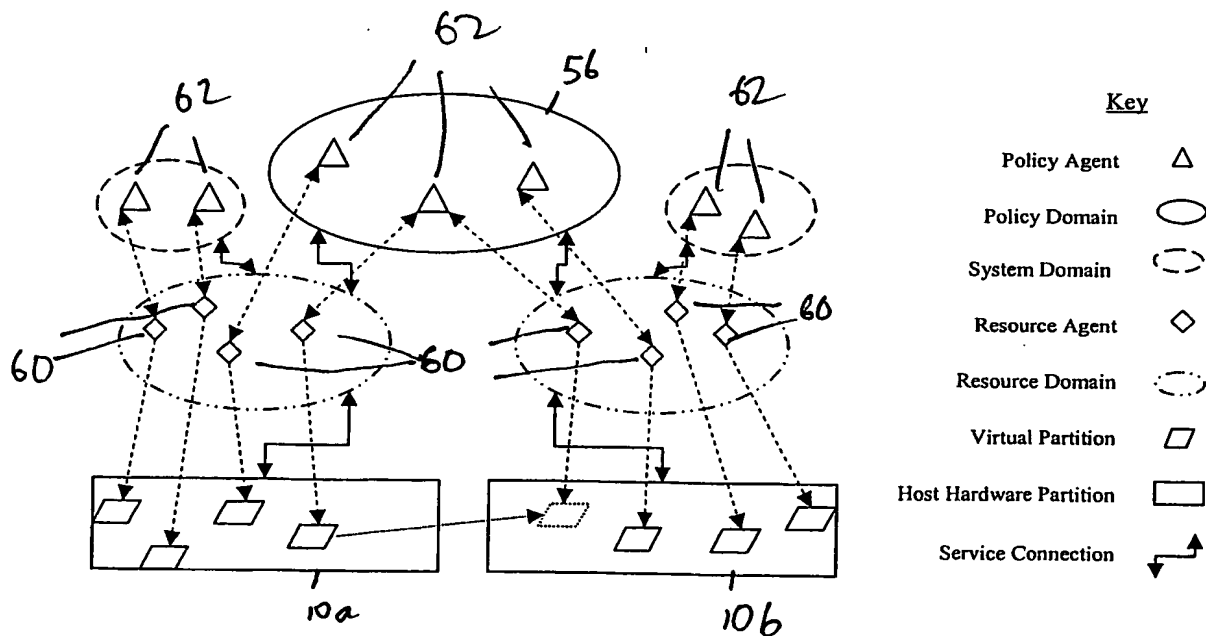


Figure 12 : Ultravisor Partition Agents

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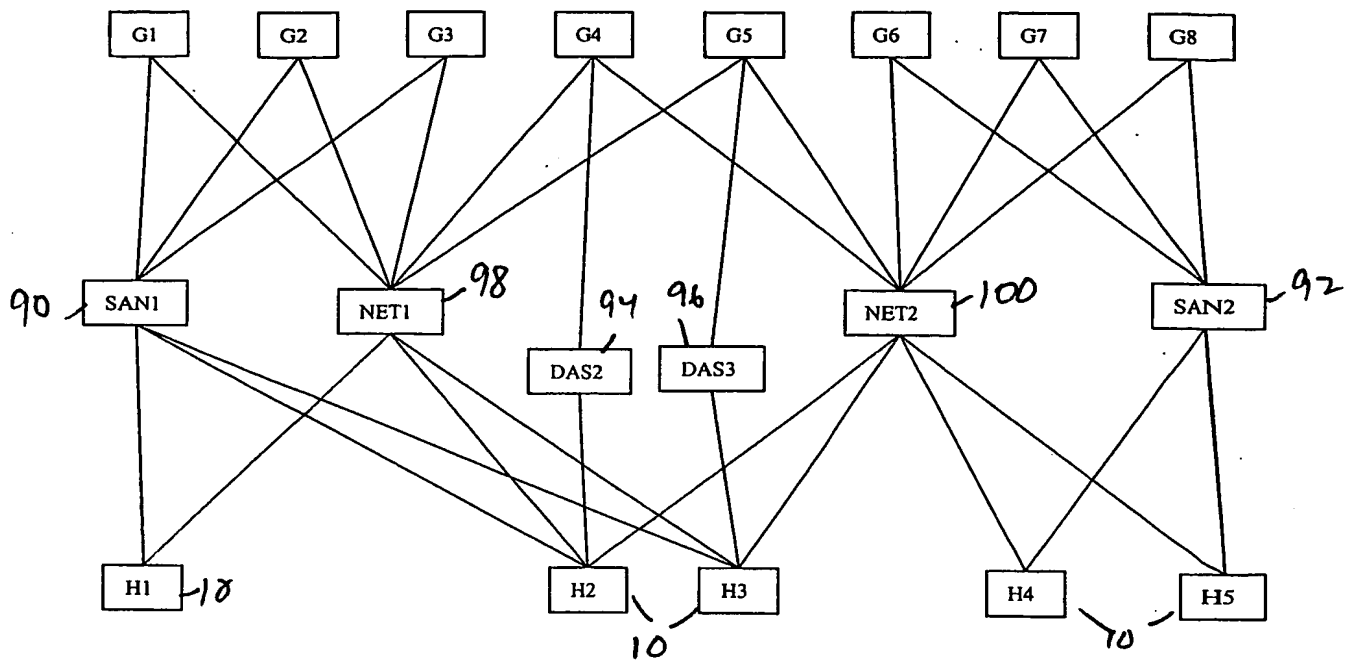


Figure 13 : Virtual Data Center Zones

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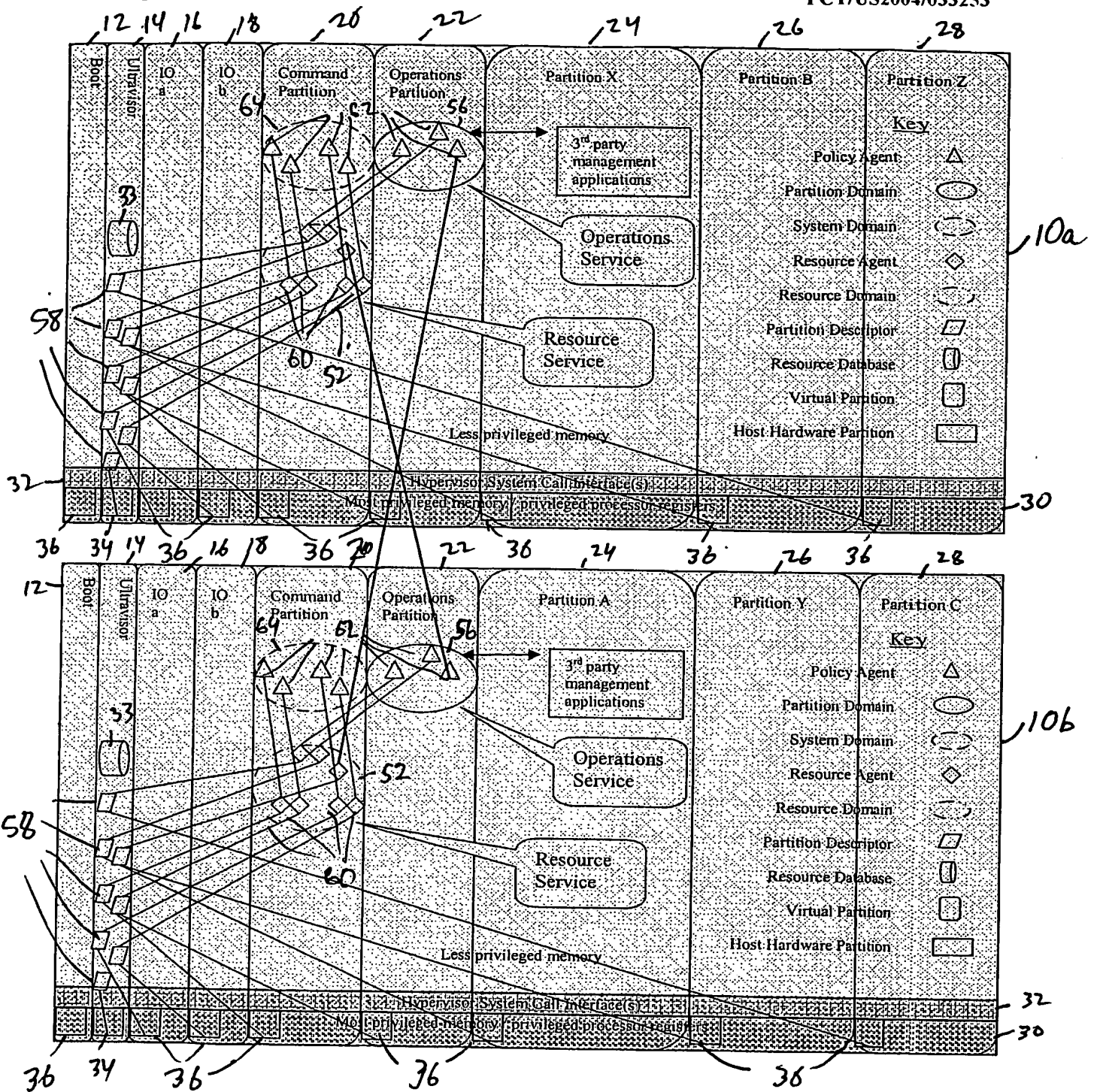
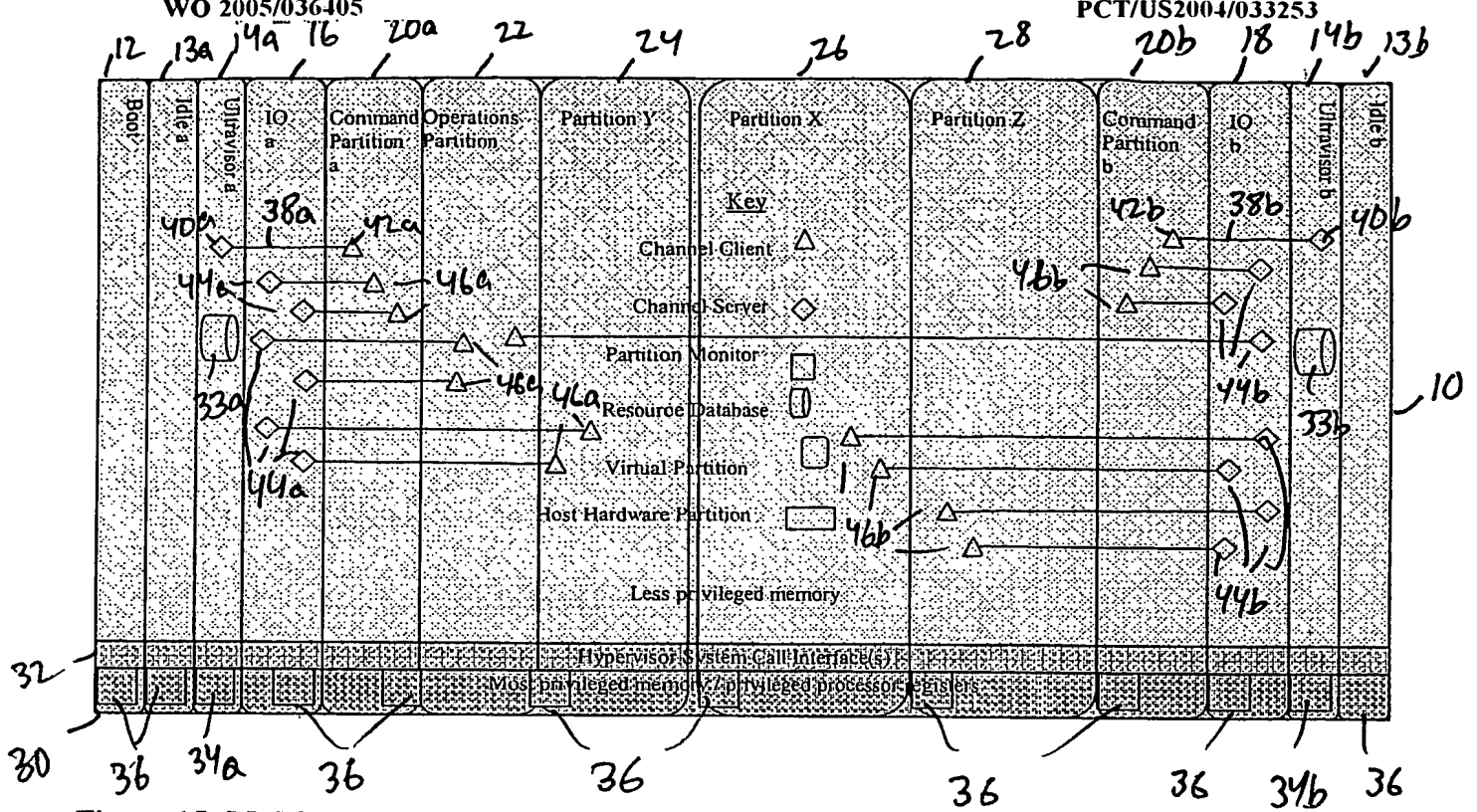


Figure 14 : Data Center/Multiple Hosts

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